

Work Order ID 64709

Tuesday, December 14, 2010 1:14:06 PM



Page 1

Item ID: D412-702-043B

Accept



Setup Start



Revision ID:

Stop



Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 12/14/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 12/22/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

PH

Date: *10-12-14*

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

IIN D412-702

Rev E

100

0.00



DC

DOCUMENT CONTROL

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP D412-702-043B CHG003

Sulor/04

OK for BG 11/01/04

105

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

11/01/03

110

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

Sulor/04

76

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 64709

Tuesday, December 14, 2010 1:14:06 PM

Page 2

Item ID: D412-702-043B

Accept

Setup Start

Revision ID:

Stop

Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 12/14/2010 Start Qty: 1.00

Cust Item ID:

Required Date: 12/22/2010 Req'd Qty: 1.00

Customer:



Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120  Packaging	Packaging	0.00				11/1/4		SP	12
Packaging	Memo Identify and pack for shipping as per PPP D412-702-043B Location: <u>52</u> PPP Rev: <u>2</u>	0.00							
130  QC	QC21- Final Inspection - Work Order Release	0.00				ck	11/01/04		
Quality Control	Memo	0.00						MF	

~~10-12~~

11-01-04

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, December 14, 2010 1:14:11 PM

Page 1

Work Order ID: 64709

Parent Item: D412-702-043B

Parent Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 12/14/2010

Required Date: 12/22/2010

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP rev A 07.05.10 new issue EC
IPP rev C 07.06.20 changed AN44 4A to AN444A EC
IPP Rev:D 07-07-06 As per Rev E JLM
IPP Rev:E 08-03-31 now at chg003 ECN1150 DD verified by:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-10A Bolt		Purchased	No			110	Each	61.0000	4	4			
<div> <div>Location</div> <div>ST356</div> <div>113422</div> <div>114523</div> <div>115835</div> </div> <div> <div>Loc Qty</div> <div>61</div> <div>1</div> <div>20</div> <div>40</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> <div></div> </div>													
AN4-44A Bolt		Purchased	No			110	Each	73.0000	2	2			
<div> <div>Location</div> <div>ST360</div> <div>104806</div> </div> <div> <div>Loc Qty</div> <div>73</div> <div>73</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
AN960JD416 Washer	NAS1149D0463J	Purchased	No			110	Each	30.0000	6	6			
<div> <div>Location</div> <div>ST300</div> <div>113288</div> <div>ST356</div> <div>115622</div> </div> <div> <div>Loc Qty</div> <div>24</div> <div>24</div> <div>6</div> <div>6</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> <div></div> </div>													

M114523

M114806

M116289

Rev 1/10/10 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 2

Work Order ID: 64709

Parent Item: D412-702-043B

Parent Item Name: 5-Mar Fwd Facing Shoulder Harness, 3 poi..

Start Date: 12/14/2010

Required Date: 12/22/2010

Start Qty: 1.00

Required Qty: 1.00

AN960JD416L

NAS1149D0416J

Purchased

No

110

Each

170.0000

4

4



Washer

Location

Loc Qty

Loc Code

ST346

168

106785

2

110153

166

ST351

2

115103

2

M116183

CR3212-4-4

Purchased

No

110

Each

134.0000

12

12



Cherry Rivet

Location

Loc Qty

Loc Code

ST311

134

114716

34

116242

100

M114716 100

M116242 70

D3542-1

Manufactured

No

110

Each

4.0000

2

2



Bracket

Location

Loc Qty

Loc Code

ST245

4

32606

2

59051

2

64133

D3571-1

Manufactured

No

110

Each

6.0000

3

3



Guide

Location

Loc Qty

Loc Code

ST245A

6

62339

6

63965

11/10/1030

Tuesday, December 14, 2010 1:14:11 PM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 3

Work Order ID: 64709

Parent Item: D412-702-043B

Parent Item Name: 5-Lan Fwd Facing Shoulder Harness, point

Start Date: 12/14/2010

Required Date: 12/22/2010

Start Qty: 1.00

Required Qty: 1.00

D3571-3 Manufactured No

110 Each

7.0000

2 2



Guide

Location

Loc Qty

Loc Code

ST245A

7

62015

7

D3578-041

Manufactured No

110 Each

31.0000

6



Doubler

Location

Loc Qty

Loc Code

ST244A

31

62335

1

63967

30

D3610-041

Manufactured No

110 Each

18.0000

2



Bracket

Location

Loc Qty

Loc Code

ST244A

18

51650

2

62338

16

D3618-1

Manufactured No

110 Each

63.0000

2



CAP

Location

Loc Qty

Loc Code

ST244A

63

55669

63

62015

6

66476328

63967

2

62338

2

55669

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 4

Work Order ID: 64709

Parent Item: D412-702-043B

Parent Item Name: 5-1/2" Tan Fwd Facing Shoulder Harness, 3 point

Start Date: 12/14/2010

Required Date: 12/22/2010

Start Qty: 1.00

Required Qty: 1.00

D3761-1-041

Manufactured No

110 Each

82.0000

5

5



HOOK & LOOP STRIP

Location

Loc Qty

Loc Code

ST244A

5

61451

5

ST245

77

63903

77

D412-702-059

CH47001

Manufactured No

110 Each

6.0000

1

1



Grommet

Location

Loc Qty

Loc Code

FG122

6

63933

2

63968

4

D412-702-101B

Manufactured No

110 Each

0.0000

1

1



Harness Assembly

D412-702-103B

Manufactured No

110 Each

0.0000

1

1



Harness Assembly

D412-702-105B

Manufactured No

110 Each

0.0000

1

1



Harness Assembly

D412-702-107B

Manufactured No

110 Each

0.0000

1

1



Harness Assembly

D412-702-109B

Manufactured No

110 Each

0.0000

1

1



Harness Assembly

Tuesday, December 14, 2010 1:14:11 PM

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Page 4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 5

Work Order ID: 64709

Parent Item: D412-702-043B

Parent Item Name: 5-Man Fwd Facing Shoulder H: nness, 3 point

Start Date: 12/14/2010

Required Date: 12/22/2010

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

4,634.000

6

6

Nut

Location

Loc Qty

Loc Code

ST300

4634

1123143

2

115589

32

115621

1100

116188

3500

MS24693-S274

Purchased

No

110

Each

49.0000

2

2

Screw

Location

Loc Qty

Loc Code

ST288

49

114718

49

MS24694-S56

Purchased

No

110

Each

92.0000

3

3

SCREW

Location

Loc Qty

Loc Code

ST289A

92

104407

92

MS24694-S58

Purchased

No

110

Each

66.0000

2

2

Screw

Location

Loc Qty

Loc Code

ST289A

66

104407

66

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Page 5

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 6

Work Order ID: 64709



Parent Item: D412-702-043B



Parent Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 12/14/2010

Required Date: 12/22/2010

Start Qty: 1.00

Required Qty: 1.00

MS24694-S60

Purchased

No

110

Each

112.0000

1

1



Screw



Rec'd 12/22/03 (1)

Location

Loc Qty

Loc Code

ST289A

112

104407

112

ML04407

Tuesday, December 14, 2010 1:14:11 PM

Shop Packet Print

Page 6

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

QTY -041B	QTY -043B	QTY -045B	QTY -047B	QTY -049B	Part Number	Description
X					D412-702-041B	Dart 13-Man 3-Point Shoulder Harness Kit
	X				D412-702-043B	Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit
		X			D412-702-045B	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
			X		D412-702-047B	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
				X	D412-702-049B	Dart 1-Man 3-Point Forward Shoulder Harness Kit
1	1		1	1	D412-702-059	GROMMET KIT
2	1		1		D412-702-101B	HARNESS ASSEMBLY
1*	1*		1*		D3573-7	ADAPTER
1*	1*		1*		D3579-046	SHOULDER HARNESS
1*	1*		1*		K6.2	CLIP
4*	4*		4*		MS24693S272	SCREW
4*	4*		4*		AN960JD10LL	WASHER
4*	4*		4*		MS21042L3	NUT
2	1		1		D412-702-103B	HARNESS ASSEMBLY
1*	1*		1*		D3573-8	ADAPTER
1*	1*		1*		D3579-045	SHOULDER HARNESS
1*	1*		1*		K6.2	CLIP
4*	4*		4*		MS24693S272	SCREW
4*	4*		4*		AN960JD10LL	WASHER
4*	4*		4*		MS21042L3	NUT
1	1			1	D412-702-105B	HARNESS ASSEMBLY
1*	1*			1*	D3573-1	ADAPTER
1*	1*			1*	D3579-046	SHOULDER HARNESS
1*	1*			1*	K6.2	CLIP
4*	4*			4*	MS24693S273	SCREW
4*	4*			4*	AN960JD10LL	WASHER
4*	4*			4*	MS21042L3	NUT
1	1				D412-702-107B	HARNESS ASSEMBLY
1*	1*				D3573-3	ADAPTER
1*	1*				D3579-046	SHOULDER HARNESS
1*	1*				K6.2	CLIP
4*	4*				MS24693S272	SCREW
4*	4*				AN960JD10LL	WASHER
4*	4*				MS21042L3	NUT
1	1				D412-702-109B	HARNESS ASSEMBLY
1*	1*				D3573-3	ADAPTER
1*	1*				D3579-045	SHOULDER HARNESS
1*	1*				K6.2	CLIP
4*	4*				MS24693S272	SCREW
4*	4*				AN960JD10LL	WASHER
4*	4*				MS21042L3	NUT

*DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

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Revision: E

Date: 07.06.27

QTY -041B	QTY -043B	QTY -045B	QTY -047B	QTY -049B	Part Number	Description
2		2			D412-702-111B	HARNESS ASSEMBLY
1*		1*			D3570-1	BRACKET
1*		1*			D3579-047	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
4*		4*			MS21042L3	NUT
2		2			D412-702-113B	HARNESS ASSEMBLY
1*		1*			D3570-2	BRACKET
1*		1*			D3579-048	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
4*		4*			MS21042L3	NUT
1			1		D412-702-115B	HARNESS ASSEMBLY
1*			1*		D3573-5	ADAPTER
1*			1*		D3579-046	SHOULDER HARNESS
1*			1*		K6.2	CLIP
4*			4*		MS24693S272	SCREW
4*			4*		AN960JD10LL	WASHER
4*			4*		MS21042L3	NUT
1			1		D412-702-117B	HARNESS ASSEMBLY
1*			1*		D3573-5	ADAPTER
1*			1*		D3579-045	SHOULDER HARNESS
1*			1*		K6.2	CLIP
4*			4*		MS24693S272	SCREW
4*			4*		AN960JD10LL	WASHER
4*			4*		MS21042L3	NUT
2	2				D3542-1	BRACKET
7	3		4	1	D3571-1	GUIDE
2	2				D3571-3	GUIDE
2		2			D3572-041	GUIDE ASSEMBLY
12	6		6	2	D3578-041	DOUBLER
2	2				D3610-041	BRACKET
2	2				D3618-1	CAP
4	4				AN4-10A	BOLT
2		2			AN4-16A	BOLT
4		4			AN4-25A	BOLT
2	2				AN4-44A	BOLT
2	2				MS24693S274	SCREW
3	3			1	MS24694S56	SCREW
10	2		8		MS24694S58	SCREW
1	1			1	MS24694S60	SCREW
26	6	20			AN960JD416	WASHER
4	4				AN960JD416L	WASHER
12	6	6			MS21042L4	NUT
24	12		12	4	CR3212-4-4	RIVET

*DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

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Revision: E

Date: 07.06.27

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. D ONLY

REF. CANADIAN STC: SH04-7

REF. FAA STC: SR01997NY

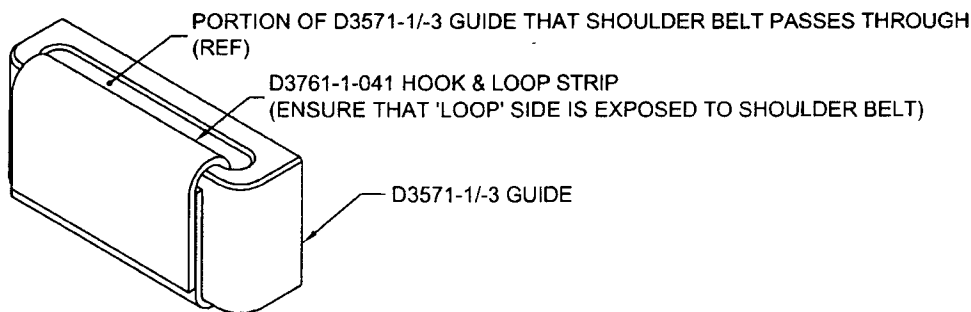
EASA STC: EASA.IM.R.S.00710

DSI9408-011/-013/-015/-017 Hook and Loop Strip Kits are available to upgrade existing D412-702-041A/-043A/-045A/-049A/-051A/-051B/-052A/-052B 3-Point Shoulder Harness Kits at CHG 001 and D412-702-041B/-043B/-045B/-049B 3-Point Shoulder Harness Kits at CHG 002. The DSI9408-011/-013/-015/-017 kits are included in D412-702-041A/-043A/-045A/-049A/-051A/-051B/-052A/-052B kits at CHG 002 and D412-702-041B/-043B/-045B/-049B kits at CHG 003.

The DSI9408 kits provide D3761-1-041 hook and loop strips that help prevent passengers from inadvertently pulling the shoulder belts out of the D3571-1/-3 guides. Installation of the D3761-1-041 hook and loops strips is optional.

The D3761-1-041 hook and loop strip is installed by wrapping the strip tightly around the front face of the D3571-1/-3 guide so that the "loop" side of the strip is exposed to the shoulder belt as shown in the figure below. The kits are as follows:

QTY -011	QTY -013	QTY -015	QTY -017	Part Number	Description
X				DSI9408-011	9-Man Hook and Loop Strip Kit Upgrades D412-702-041A kits at CHG 001 Upgrades D412-702-041B kits at CHG 002
	X			DSI9408-013	5-Man Hook and Loop Strip Kit Upgrades D412-702-043A Kits at CHG 001 Upgrades D412-702-043B Kits at CHG 002
		X		DSI9408-015	4-Man Hook and Loop Strip Kit Upgrades D412-702-047A Kits at CHG 001 Upgrades D412-702-047B Kits at CHG 002
			X	DSI9408-017	1-Man Hook and Loop Strip Kit Upgrades D412-702-049A Kits at CHG 001 Upgrades D412-702-049B Kits at CHG 002 Upgrades D412-702-051A Kits at CHG 001 Upgrades D412-702-051B Kits at CHG 001 Upgrades D412-702-052A Kits at CHG 001 Upgrades D412-702-052B Kits at CHG 001
9	5	4	1	D3761-1-041	Hook and Loop Strip



CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 08.03.05
CERT. NO.: SH04-7
ISSUE NO.: 3

A	NEW ISSUE	LE	08.03.05
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9408	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	HOOK AND LOOP STRIP	NTS
DATE	08.03.05	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	